FT3HV

(Former FOX923CEH)

3.2mm x 2.5mm

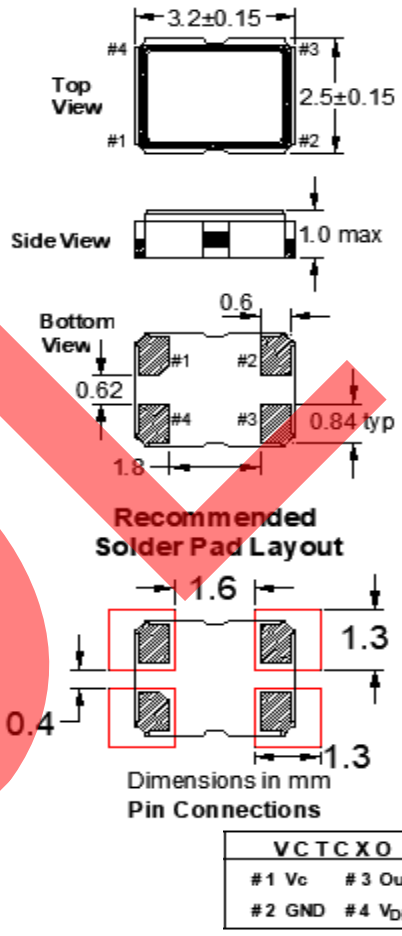
HCMOS VCTCXO

Features

- Digital Temperature Compensation

STANDARD SPECIFICATIONS	
PARAMETERS	**MAX (Unless otherwise noted)**
Frequency Range (MHz)	8.0 ~ 40.000
Temperature Range Operating (T_{OPR}) Storage (T_{STG})	 (See table below) -40°C ~ +90°C
Supply Voltage (V_{DD})	+3.3 V_{DC} ±5%
Input Current (I_{DD})	6.0 mA
Initial Frequency Tolerance @ 25°C (after reflow) (T3HV: V_C = 1.66V)[1]	 ±2.0 PPM
Frequency Stability Over Temperature Range Over Supply Voltage Change (3.3V±5%) Over Load Change (15pF ±5%)	 See table below ±0.3 PPM ±0.3 PPM
Rise Time (V_{DD}) Fall Time (V_{DD})	5nS 5nS
Symmetry (V_{DD})	40% ~ 60%
Output Voltage (V_{OL}) (V_{OH})	10% V_{DD} 90%V_{DD} Min
Output Load (C_L)	15pF
Pullability (T3HV: V_C = 1.65V±1.0V)[1]	 ±3 ~ ±15 PPM
Aging per year	±1.0 PPM
Startup Time (T_S)	3.0 mS
Phase Noise @ 1kHz offset	 -130 dBc/Hz Typical
Reflow Soldering Temp	260˚C / 10 Seconds x 2
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au over Ni
Lead-Free	Yes
RoHS/REACH Compliant	Yes

DIMENSIONS / MECHANICAL SPECIFICATIONS



Available Options by Stability & Operating Temp					
Operating Temperature	**±1 PPM**	**±1.5 PPM**	**±2 PPM**	**±2.5 PPM**	**±15 PPM**
-30 ~+85˚C	O	O	O	O	NA
-40 ~+85˚C	Δ	O	O	O	NA
-40 ~+105˚C	X	X	X	X	O
Key: O=Available, X=Not Available, NA=Not Applicable, Δ = Consult Fox Engineering					

[1]For proper operation, a control voltage (Vc) must be applied to pin 1 of VCTCXO's. All specifications subject to change without notice.

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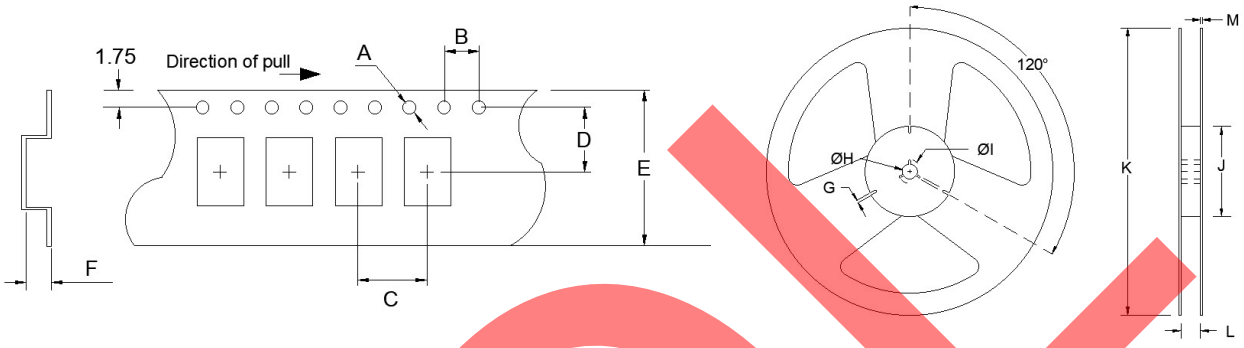
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TAPE SPECIFICATIONS (mm)							REEL SPECIFICATIONS (mm)						
A	B	C	D	E	F	REEL QTY	G	H	I	J	K	L	M
ø1.5	4.0	4.0	3.5	8.0	1.4	**-T3 = 3,000 default** -T2 = 2,000 -T1 = 1,000	2.0	Ø13	Ø21	Ø60	Ø180	9.0	1.5



Available Options & Part Identification for VCTCXO Model T3HV[1]

Sample PN: FT3HVBPK25.0-T3

F	T3HV	B	P	K	25.0	-T3
Fox	**Model Number** **T3HV = VCTCXO**	**Tolerance** **B = +3.3V±5%**	**Stability** T = ±1.0 PPM S = ±1.5 PPM R = ±2.0 PPM **P = ±2.5 PPM** F = ±15 PPM	**Operating Temperature** **K = -30 to +85°C** M = -40 to +85˚C P = -40 to +105˚C	**Frequency (MHz)**	**Values Added Options** Blank = Bulk T1 = 1,000 pcs T2 = 2,000 pcs **T3 = 3,000 pcs**

[1] Not all frequencies in the frequency range, or every combination of stability, temp range, and voltage available. See stabilities/operating temp table.

Reliability Test Conditions
Please contact Abracon Quality Assurance department

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